

Sheet 1 of 6FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
ORT1563NPSERIAL NO.
10/753,107**INFORMATION DISCLOSURE
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APPLICANT
Bittner et al.FILING DATE
06 January 2004GROUP ART UNIT
1631**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	INVENTORS	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>A</i>	US	3 8 1 7 8 3 7	June 18, 1974	Rubenstein et al.			
	US	3 8 5 0 7 5 2	November 26, 1974	Schuurs et al.			
	US	3 9 3 9 3 5 0	February 17, 1976	Kronick et al.			
	US	3 9 9 6 3 4 5	December 7, 1976	Ullman et al.			
	US	4 2 7 5 1 4 9	June 23, 1981	Litman et al.			
<i>A</i>	US	4 2 7 7 4 3 7	July 7, 1981	Maggio			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY/REGION	CLASS	SUBCLASS	TRANSLATION (if applicable)
<i>A</i>	WO	9 5 3 5 5 0 5	December 28, 1995	WIPO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>A</i>		Amit et al., "Photosensitive Protecting Groups Of Amino Sugars And Their Use In Glycoside Synthesis. 2-Nitrobenzyloxycarbonylamino And 6-Nitroveratryloxycarbonylamino Derivatives," <i>J. Org. Chem.</i> , Vol. 39(2), pp. 192-196 (1974)
		Barringer et al., "Blunt-End And Single-Strand Ligations By Escherichia Coli Ligase: Influence On An In Vitro Amplification Scheme," <i>Gene</i> , Vol. 89, pp. 117-122 (1990)
		Beaucage et al., "Deoxynucleoside Phosphoramidites-A New Class Of Key Intermediates For Deoxypolynucleotide Synthesis," <i>Tetrahedron Lett.</i> , Vol. 22(20), pp. 1859-1862 (1981)
		Beaucage et al., "Advances In The Synthesis Of Oligonucleotides By The Phosphoramidite Approach," <i>Tetrahedron</i> , Vol. 48(12), pp. 2223-2311 (1992)
		Blanchard et al., "High-Density Oligonucleotide Arrays," <i>Biosensors and Bioelectronics</i> , Vol. 11(6/7), pp. 687-690 (1996)
		Brown et al., "Knowledge-Based Analysis Of Microarray Gene Expression Data By Using Support Vector Machines," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 97(1), pp. 262-267 (2000)
		Caruthers et al., "New Chemical Methods for Synthesizing Polynucleotides," <i>Nucl. Acids Symp. Series.</i> , No. 7, pp. 215-223 (1980)
		Chen et al., "Ratio-Based Decisions And The Quantitative Analysis Of cDNA Microarray Images," <i>J. Biomed. Optics</i> , Vol. 2(4), pp. 364-367 (1997)
<i>A</i>		Cho et al., "A Genome-Wide Transcriptional Analysis Of The Mitotic Cell Cycle," <i>Mol. Cell</i> , Vol. 2, pp. 65-73 (1998)

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INFORMATION DISCLOSURE CITATION BY APPLICANT (Use several sheets if necessary)		APPLICANT Bittner et al.	
		FILING DATE 06 January 2004	GROUP ART UNIT 1631

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	INVENTORS	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
R	US	4 3 6 6 2 4 1	December 28, 1982	Tom et al.			
	US	4 4 1 5 7 3 2	November 15, 1983	Caruthers et al.			
	US	4 4 5 8 0 6 6	July 3, 1984	Caruthers et al.			
	US	4 7 2 5 6 7 7	February 16, 1988	Köster et al.			
	US	4 9 8 0 4 6 0	December 25, 1990	Molko et al.			
	US	4 9 7 3 6 7 9	November 27, 1990	Caruthers et al.			
	US	5 1 4 3 8 5 4	September 1, 1992	Pirrung et al.			
A	US	5 2 4 2 9 7 4	September 7, 1993	Holmes			

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

R	Duggan, et al., "Expression Profiling Using cDNA Microarrays," <i>Nature Genetics Supplement</i> , Vol. 21, pp. 10-14 (1999)
	Eisen et al., "Cluster Analysis And Display Of Genome-Wide Expression Patterns," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 95, pp. 14863-14868 (1998)
	Ermolaeva et al., "Data Management And Analysis For Gene Expression Arrays," <i>Nature Genet.</i> , Vol. 20, pp. 19-23 (1998)
	Getz et al., "Coupled Two-Way Clustering Analysis Of Gene Microarray Data," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 97(22), pp. 12079-12084 (2000)
	Guatelli et al., "Isothermal, In Vitro Amplification Of Nucleic Acids By A Multienzyme Reaction Modeled After Retroviral Replication," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87, pp. 1874-1878 (1990)
	Heller et al., "Discovery And Analysis Of Inflammatory Disease-Related Genes Using cDNA Microarrays," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 94, pp. 2150-2155 (1997)
	Holter et al., "Fundamental Patterns Underlying Gene Expression Profiles: Simplicity From Complexity," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 97(15), pp. 8409-8414 (2000)
	Kimmel, "Identification And Characterization Of Specific Clones: Strategy For Confirming The Validity Of Presumptive Clones," <i>Methods Enzymol.</i> , Vol. 152, pp. 507-511 (1987)
A	Kwoh et al., "Transcription-Based Amplification System And Detection Of Amplified Human Immunodeficiency Virus Type 1 With A Bead-based Sandwich Hybridization Format," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 86, pp. 1173-1177 (1989)
	Landegren et al., "A Ligase-Mediated Gene Detection Technique," <i>Science</i> , Vol. 241, pp. 1077-1080 (1988)

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<i>AS</i>	US	5 2 8 8 6 4 4	February 22, 1994	Beavis et al.			
	US	5 3 2 4 6 3 3	June 28, 1994	Fodor et al.			
	US	5 3 8 4 2 6 1	January 24, 1995	Winkler et al.			
	US	5 4 0 5 7 8 3	April 11, 1995	Pirrung et al.			
	US	5 4 1 2 0 8 7	May 2, 1995	McGall et al.			
	US	5 4 2 4 1 8 6	June 13, 1995	Fodor et al.			
	US	5 4 2 9 8 0 7	July 4, 1995	Matson et al.			
	US	5 4 3 2 0 4 9	July 11, 1995	Fischer et al.			
<i>AS</i>	US	5 4 3 6 3 2 7	July 25, 1995	Southern et al.			

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<i>AS</i>		Lipshutz et al., "High Density Synthetic Oligonucleotide Arrays," <i>Nature Genet. Supplement</i> , Vol. 21, pp. 20-24 (1999)
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		Maskos and Southern, "A Study Of Oligonucleotide Reassociation Using Large Arrays Of Oligonucleotides Synthesised On A Glass Support," <i>Nucl. Acids Res.</i> , Vol. 21(20), pp. 4663-4669 (1993)
		Matteucci and Caruthers, "Synthesis Of Deoxyoligonucleotides On A Polymer Support ¹ ," <i>J. Am. Chem. Soc.</i> , Vol. 103(11), pp. 3185-3191 (1981)
		Patchornik et al., "Photosensitive Protecting Groups," Communication to Editor, <i>J. Am. Chem. Soc.</i> , Vol. 92(21), pp. 6333-6335 (1970)
<i>AS</i>		Schena et al., "Parallel Human Genome Analysis: Microarray-Based Expression Monitoring of 1000 Genes," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 93, pp. 10614-10619 (1996)

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<i>AS</i>	US	5 4 4 5 9 3 4	August 29, 1995	Fodor et al.			
	US	5 4 7 0 7 1 0	November 28, 1995	Weiss et al.			
	US	5 4 7 2 6 7 2	December 5, 1995	Brennan			
	US	5 4 9 2 8 0 6	February 20, 1996	Dmanac' et al.			
	US	5 5 0 3 9 8 0	April 2, 1996	Cantor			
<i>AS</i>	US	5 5 1 0 2 7 0	April 23, 1996	Fodor et al.			

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<i>AS</i>		Schena et al., "Microarrays: Biotechnology's Discovery Platform For Functional Genomics," <i>Trends Biotechnol.</i> , Vol. 16, pp. 301-306 (1998)
		Shalon, "Gene Expression Micro-Arrays: A New Tool For Genomic Research," <i>Pathol. Biol.</i> , Vol. 46(2), pp. 107-109 (1998)
		Tamayo et al., "Interpreting Patterns Of Gene Expression With Self-Organizing Maps: Methods And Application to Hematopoietic Differentiation," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96, pp. 2907-2912 (1999)
		Wahl et al., "Molecular Hybridization Of Immobilized Nucleic Acids: Theoretical Concepts And Practical Considerations," <i>Methods Enzymol.</i> , Vol. 152, pp. 399-407 (1987)
		Welford et al., "Detection Of Differentially Expressed Genes In Primary Tumor Tissues Using Representational Differences Analysis Coupled To Microarray Hybridization," <i>Nucl. Acids Res.</i> , Vol. 26(12), pp. 3059-3065 (1998)
<i>AS</i>		Wheeler et al., "Database Resources Of The National Center For Biotechnology Information," <i>Nucl. Acids Res.</i> , Vol. 29(1), pp. 11-16 (2001)

EXAMINER <i>Shults</i>	DATE CONSIDERED <i>1/29/06</i>
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<i>RA</i>	US	5 5 1 4 5 4 5	May 7, 1996	Eberwine			
	US	5 5 2 5 4 6 4	June 11, 1996	Drmanac et al.			
	US	5 5 2 7 6 8 1	June 18, 1996	Holmes			
	US	5 5 2 9 7 5 6	June 25, 1996	Brennan			
	US	5 5 4 5 5 3 1	August 13, 1996	Rava et al.			
	US	5 5 4 7 8 3 9	August 20, 1996	Dower et al.			
	US	5 5 5 4 5 0 1	September 10, 1996	Coassin et al.			
	US	5 5 5 6 7 5 2	September 17, 1996	Lockhart et al.			
	US	5 5 6 1 0 7 1	October 1, 1996	Hollenberg et al.			
	US	5 5 7 1 6 3 9	November 5, 1996	Hubbell et al.			
	US	5 5 8 0 7 3 2	December 3, 1996	Grossman et al.			
	US	5 5 9 3 8 3 9	January 14, 1997	Hubbell et al.			
	US	5 6 2 4 7 1 1	April 28, 1997	Sundberg et al.			
	US	5 6 6 1 0 2 8	August 26, 1997	Foote			
	US	5 7 0 0 6 3 7	December 23, 1997	Southern			
	US	5 7 4 4 3 0 5	April 28, 1998	Fodor et al.			
	US	5 7 7 0 4 5 6	June 23, 1998	Holmes			
	US	5 7 7 0 7 2 2	June 23, 1998	Lockhart et al.			
	US	5 8 3 7 8 3 2	November 17, 1998	Chee et al.			
	US	5 8 4 8 6 5 9	December 15, 1998	Karg et al.			
	US	5 8 5 6 1 0 1	January 5, 1999	Hubbell et al.			
	US	5 8 7 4 2 1 9	February 23, 1999	Rava et al.			
<i>RA</i>	US	5 8 8 5 8 3 7	March 23, 1999	Winkler et al.			

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<i>RA</i>	Wu et al., "The Ligation Amplification Reaction (LAR)-Amplification Of Specific DNA Sequences Using Sequential Rounds Of Template-Dependent Ligation," <i>Genomics</i> , Vol. 4, pp. 560-569 (1989)

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<i>RA</i>	US	5 9 1 9 5 2 3	July 6, 1999	Sundberg et al.			
<i>I</i>	US	6 0 2 2 9 6 3	February 8, 2000	McGall et al.			
<i>I</i>	US	6 0 7 7 6 7 4	June 20, 2000	Schleifer et al.			
<i>I</i>	US	6 0 9 3 3 0 2	July 25, 2000	Montgomery			
<i>I</i>	US	6 1 5 6 5 0 1	December 5, 2000	McGall et al.			
<i>PS</i>	US	6 2 8 0 5 9 5	August 28, 2001	Montgomery			

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